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Attorney's Docket No.: 042390.P14874

In re the Application of: Sell et al. (inventor(s))

Application No.: 09/900,423

Filed: July 6, 2001

For: HERMETICALLY SEALED EXTERNAL CAVITY LASER SYSTEM AND METHOD (title)

Assistant Commissioner for Patents  
Washington, D.C. 20231

SIR: Transmitted herewith is an Amendment for the above application.

- Small entity status of this application under 37 C.F.R. §§ 1.9 and 1.27 has been established by a verified statement previously submitted.  
A verified statement to establish small entity status under 37 C.F.R. §§ 1.9 and 1.27 is enclosed.  
No additional fee is required.

The fee has been calculated as shown below:

	(Col. 1)		(Col. 2)	(Col. 3)
	Claims Remaining After Amd.		Highest No. Previously Paid For	Present Extra
Total Claims	* 38	Minus	** 37	1
Indep. Claims	* 4	Minus	*** 4	0
<b>First Presentation of Multiple Dependent Claim(s)</b>				

SMALL ENTITY	
Rate	Additional Fee
X9	\$
X42	\$
<b>+140</b>	<b>\$</b>
Total Add. Fee	\$

OTHER THAN A SMALL ENTITY	
Rate	Additional Fee
X18	\$ 18.00
X84	\$ 0.00
<b>+280</b>	<b>\$</b>
Total Add. Fee	\$ 18.00

\* If the entry in Col. 1 is less than the entry in Col. 2, write "0" in Col. 3.

\*\* If the "Highest No. Previously Paid For" IN THIS SPACE is less than 20, write "20" in this space.

\*\*\* If the "Highest No. Previously Paid For" IN THIS SPACE is less than 3, write "3" in this space. The "Highest No. Previously Paid For" (Total or Independent) is the highest number found from the equivalent box in Col. 1 of a prior amendment or the number of claims originally filed.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231

on January 24, 2002  
Date of Deposit

Luci M. Arevalo

Name of Person Mailing Correspondence

Luci M. Arevalo  
Signature

01/24/03  
Date

\_\_\_\_\_ A check in the amount of \$\_\_\_\_\_ is attached for presentation of additional claim(s).  
\_\_\_\_\_ Applicant(s) hereby Petition(s) for an Extension of Time of \_\_\_\_\_ month(s) pursuant to  
\_\_\_\_\_ 37 C.F.R. § 1.136(a).

\_\_\_\_\_ A check for \$\_\_\_\_\_ is attached for processing fees under 37 C.F.R. § 1.17.

\_\_\_\_\_ Please charge my Deposit Account No. 02-2666 the amount of \$\_\_\_\_\_.

**A duplicate copy of this sheet is enclosed.**


X \_\_\_\_\_ The Commissioner of Patents and Trademarks is hereby authorized to charge payment of the  
\_\_\_\_\_ following fees associated with this communication or credit any overpayment to Deposit Account  
\_\_\_\_\_ No. 02-2666 **(a duplicate copy of this sheet is enclosed):**

X \_\_\_\_\_ Any additional filing fees required under 37 C.F.R. § 1.16 for presentation of  
\_\_\_\_\_ extra claims.

X \_\_\_\_\_ Any extension or petition fees under 37 C.F.R. § 1.17.

BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP

Date: Jan. 24, 2003

  
\_\_\_\_\_  
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Sell *et al.*

Serial No.: 09/900,423 ✓

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For: HERMETICALLY SEALED EXTERNAL  
CAVITY LASER SYSTEM AND METHOD

Examiner: Vy, H.

Art Unit: 2828

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**RESPONSE AND AMENDMENT UNDER 37 C.F.R. §§ 1.111 AND 1.121**

Sir:

In response to the Office Action mailed October 24, 2002, Applicants respectfully request the Examiner to enter the following amendments and consider the following remarks.

**AMENDMENTS**

In the Specification:

Please delete paragraph 24 and replace with:

Grid etalon 24 may be a parallel plate solid, liquid or gas spaced etalon, and may be tuned by precise dimensioning of the optical thickness between faces 28, 30 by thermal expansion and contraction via temperature control. The grid etalon 24 may alternatively be tuned by tilting to vary the optical thickness between faces 28, 30, or by application of an electric field to an electrooptic etalon material. Grid etalon 24 may be thermally controlled to prevent variation in the selected grid which may arise due to thermal fluctuation during operation of external cavity laser 10. Grid etalon 34 alternatively may be actively tuned during laser operation as described in the U.S. Patent Application Ser. No. 09/900,474 entitled "External Cavity Laser with Continuous Tuning of Grid Generator" to inventors Oaiber *et al.*, co-filed herewith, and incorporated herein by reference. Various other types of grid generator other than a grid etalon maybe used with external cavity laser 10.